What is claimed:

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- 1. A vaso-occlusive coil having an elongate helical primary shape, the primary shape defining a primary axis, the coil further having a three-dimensional secondary shape, the secondary shape comprising a substantially helical first section and a second section having a plurality of non-overlapping loops, each loop defining a plane oriented at an angle from about thirty degrees to about one hundred fifty degrees relative to a plane defined by any immediately preceding or any immediately succeeding loop along the primary axis.
- 2. The coil of claim 1, the loops including generally circular loops.
- 15 3. The coil of claim 1, the loops including generally elliptical loops.
- 4. The coil of claim 1, , the primary shape being wound into the secondary shape, the loops being wound without contacting each other.

- 5. The coil of claim 1, the loops of the secondary shape not contacting each other, absent a force being applied to the secondary shape.
- 5 6. The coil of claim 1, the secondary shape further comprising a substantially helical third section, wherein the second section is disposed along the primary axis between the first and third sections.
- 7. The coil of claim 1, each loop defining a plane oriented generally orthogonal to a plane defined by any immediately preceding or succeeding loop along the primary axis.
- 8. The coil of claim 1, wherein at least two loops define respective planes disposed generally parallel to each other.
 - 9. The coil of claim 1, each loop defining a plane disposed generally parallel to a plane defined by another loop.
- 20 10. The coil of claim 1, the second section having up to about fifteen loops.

- 11. The coil of claim 1, at least one loop being wound about an axis for less than about three hundred sixty degrees.
- 12. The coil of claim 1, at least one loop being wound 5 around an axis for less than about two hundred seventy degrees.
 - 13. The coil of claim 1, at least one loop being wound around an axis for less than about one hundred eighty degrees.
- 10 14. A vaso-occlusive coil, comprising
 - a substantially helical primary shape defining a primary axis, the primary shape being wound into a three-dimensional secondary shape, the secondary shape comprising
 - a substantially helical first section, and
- a second section immediately following the first section along the primary axis, the second section comprising a plurality of non-overlapping loops, including a first loop, a second loop immediately following the first loop along the primary axis, and a third loop immediately following the second loop along the primary axis,

wherein the first loop defines a plane oriented at an angle of at least about thirty degrees relative to a plane defined by the second loop, and the second loop defines a plane oriented at

an angle of at least about thirty degrees relative to a plane defined by the third loop.

- 15. The coil of claim 14, the secondary shape further comprising a third section immediately following the second section along the primary axis.
 - 16. The coil of claim 14, the loops being wound without contacting one another.

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17. The coil of claim 14, the first loop defining a plane oriented generally orthogonal to a plane defined by the second loop, and the second loop defining a plane oriented generally orthogonal to a plane defined by the third loop.

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- 18. The coil of claim 14, the first loop defining a plane disposed generally parallel to a plane defined by the third loop.
- 19. The coil of claim 14, the second section further comprising a fourth loop immediately following the third loop along the primary axis, wherein the third loop defines a plane oriented at an angle of at least about thirty degrees relative to a plane defined by the fourth loop.

20. The coil of claim 19, the first loop defining a plane disposed generally parallel to a plane defined by either of the third or fourth loops.

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21. The coil of claim 13, wherein respective planes defining the first, second and third loops form a generally triangular configuration.